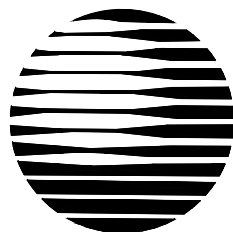


M
Mitchell J
architecture



AT&T

NSB CAL01620/CAL01813 LAKE MORENA
2290 LAKE MORENA DRIVE, CAMPO, CA 91906

LEGAL DESCRIPTION

PLEASE SEE SHEET L61

DIRECTIONS TO SITE:

- TURN SOUTH ON CAMINO SANTA FE
- TURN WEST ON MIRAMAR ROAD
- GET 1-805 SOUTH FROM MIRAMAR RD
- TAKE I-8 EAST
- TURN RIGHT ONTO BUCKMAN SPRING RD
- TURN RIGHT ONTO OAK DR
- TURN LEFT ONTO MOLCHAN RD
- TURN LEFT ONTO LAKE MORENA DRIVE



NO SCALE
© 2010 DeLorme (www.delorme.com) TOPO NORTH AMERICA™

VICINITY MAP

RF INITIALS:

ZONING/PLANNING INITIALS:

DATE

DATE

A/E MANAGER INITIALS:

CONSTRUCTION INITIALS:

DATE

DATE

SITE ACQUISITION INITIALS: AND LORD INITIALS:

DATE

DATE

LEGAL DESCRIPTION

DIRECTIONS TO SITE

APPLICABLE CODES

ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES:
INCLUDING BUT NOT LIMITED TO:

1. 2016 CALIFORNIA BUILDING CODE (CBC) / 2012 INTERNATIONAL BUILDING CODE (IBC)
2. 2016 CALIFORNIA RESIDENTIAL CODE (CRC) / 2012 INTERNATIONAL RESIDENTIAL CODE (IRC)
3. 2016 CALIFORNIA ELECTRICAL CODE (CEC) / 2011 NATIONAL ELECTRICAL CODE (NEC)
4. 2016 CALIFORNIA MECHANICAL CODE (CMC) / 2012 UNIFORM MECHANICAL CODE (UMC)
5. 2016 CALIFORNIA PLUMBING CODE (CPC) / 2012 UNIFORM PLUMBING CODE (UPC)
6. 2016 CALIFORNIA FIRE CODE (CFC) / 2009 (IFC)
7. 2016 CALIFORNIA GREEN BUILDINGS STANDARDS CODE
8. 2016 BUILDING ENERGY EFFICIENCY STANDARDS

SITE NAME
LAKE MORENA
SITE NUMBER
CAL01620

SITE ADDRESS
2290 LAKE MORENA DRIVE,
CAMPO, CA 91906

APPLICANT
AT&T WIRELESS SERVICES
7337 TRADE STREET
SAN DIEGO, CA 92121
AT&T PROJECT MANAGER
KEVIN BECKER
7337 TRADE STREET
SAN DIEGO, CA 92121
(858) 717-7908

PROJECT DESCRIPTION:
AT&T PROPOSES A NEW CELL SITE (345 SQ. FT. LEASE AREA), IN
CONFORMANCE WITH P06-096, OPERATE AND MAINTAIN AN UNMANNED
DIGITAL MOBILE RADIO COMMUNICATIONS FACILITY ON THIS SITE
CONSISTING OF:

- NEW 35' FAUX TREE
- NEW 10'-0"x16'-0" PREF-FAB SHELTER
- NEW FILL ANTENNAS (5 TOTAL)
- NEW GENERIC ANTENNAS (7 TOTAL)
- NEW GPS ANTENNA (1 TOTAL)
- NEW RRU'S TOTAL OF (24 TOTAL)
- NEW DC-6 SURGE PROTECTOR (4 TOTAL)
- NEW RAYCAP DC-12 SURGE PROTECTOR (3 TOTAL)
- NEW STACKED PURCELL CABINET (4 TOTAL)
- NEW EMERSON CABINETS (2 TOTAL)
- NEW WCS FILTERS (5 TOTAL)
- NEW FIBER TRUNKS (3 TOTAL)
- NEW DC TRUKS (8 TOTAL)
- NEW 15 KW DIESEL GENERATOR

LATITUDE (NAD 83):

32° 40' 14.02" N

LONGITUDE (NAD 83):

116° 30' 18.07" W

TELECOMMUNICATION
CARRIERS
NO OTHER WIRELESS CARRIERS
ON-SITE

OWNER
MARK ANDERSON & KEN
ANDERSON

APN
607-022-37-00
JURISDICTION
SAN DIEGO COUNTY

ARCHITECTS

MITCHELL J. ARCHITECTURE
4885 RONSON COURT, SUITE N
SAN DIEGO, CA 92111
TEL: (858) 650-3130
FAX: (858) 650-3140

CONTACT : CHRISTIAN RUVALCABA (JOB CAPTAIN)

ZONING MANAGER

BLACK & VEATCH
SCOTT HORSLEY
MOBILE: +1 949-274-1011

SAQ MANAGER

MITCHELL J. ARCHITECTURE
LUCAS TURNER
MOBILE: +1 949-690-5057

CONSTRUCTION MANAGER

BLACK & VEATCH
PJ PUTICH
MOBILE: +1 216-965-7809

Sheet List Table	
Sheet Number	Sheet Title
G-001	TITLE SHEET, PROJECT INFORMATION & VICINITY MAP
LS1	SURVEY
LS2	ENLARGED SURVEY
A-101	BOUNDARY PLAN
A-102	ENLARGED SITE PLAN
A-103	SKIMP PLAN
A-201	EXTERIOR ELEVATIONS
A-401	EQUIPMENT & ANTENNA LAYOUT PLANS
D-501	EQUIPMENT & ANTENNA DETAILS
D-502	GENERATOR SPECIFICATIONS

No.	Revision / Issue	Date
A	75% ZD REVIEW	08-22-17
B	100% ZD REVIEW	09-01-17
C	County Comments	11-09-17
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MITCHELL J. ARCHITECTURE, INC.
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LAKE MORENA
CAL01620
2290 LAKE MORENA DRIVE
CAMPO, CA 91906



Project	CAL01620
Date	08-22-17
Drawn By	CR
Checked By	AB
Scale	AS SHOWN

Mitchell J. Architecture

G-001



APN
607-022-37-00
SITE ADDRESS
2290 LAKE MORENA DR., CAMPO, CA 91906
RECORD OWNER
MARK ANDERSON AND KEN ANDERSON, HUSBAND AND WIFE AS JOINT TENANTS

TITLE REPORT
THE PRELIMINARY TITLE REPORT WAS AMENDED BY TICOR TITLE COMPANY OF CALIFORNIA WITH ORDER NUMBER 00490385-995-CY DATED AUGUST 2, 2017.

BASIS OF BEARING
THE CENTERLINE OF LAKE MORENA DRIVE WITH BEARING S42°46'30"E WAS USED AS BASIS OF BEARINGS FOR THIS SURVEY.

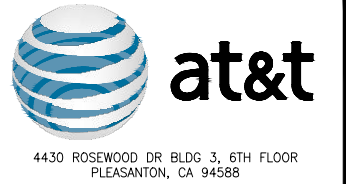
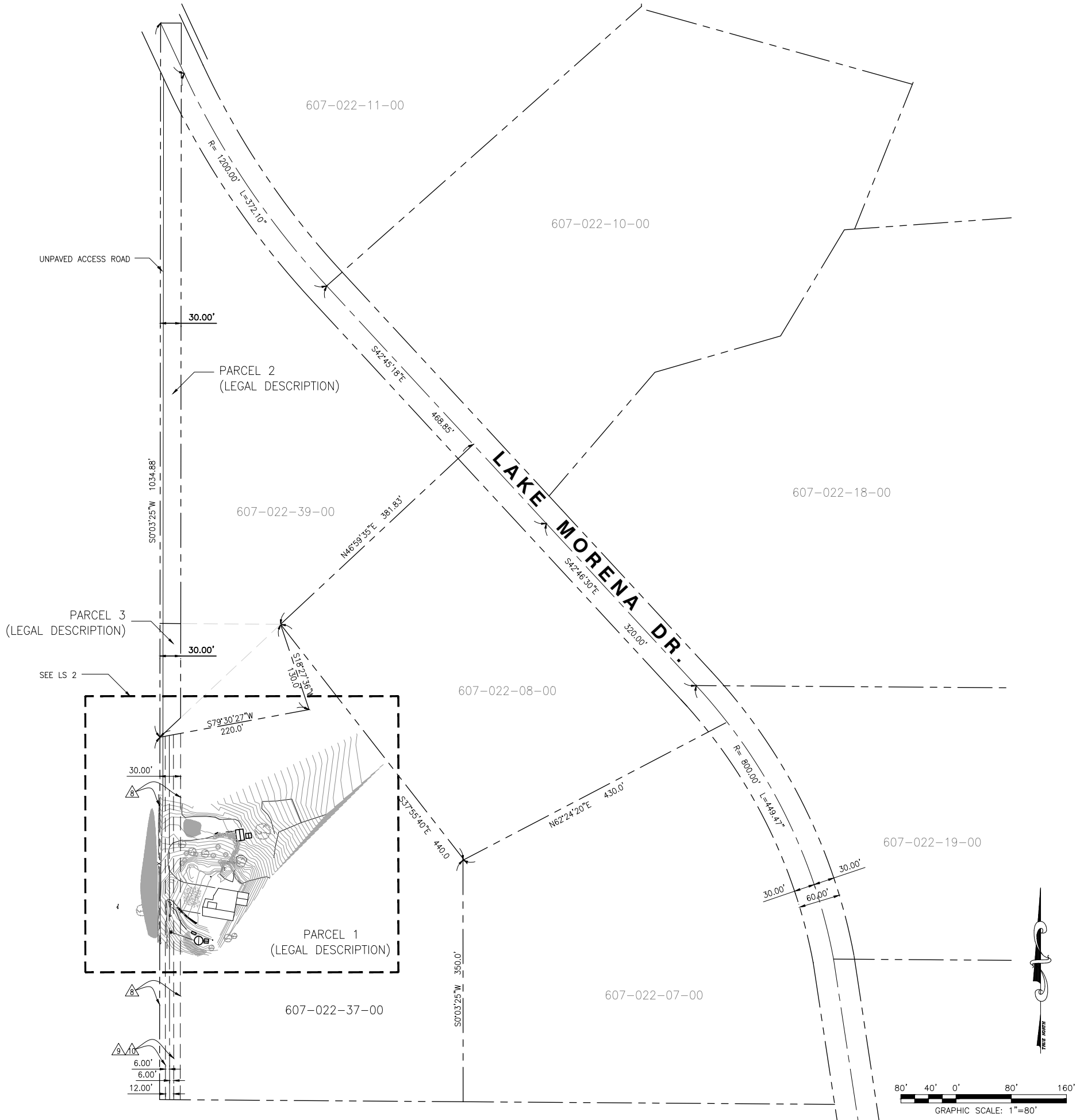
BENCH MARK
SITE ELEVATIONS ARE ESTABLISHED FROM THE GPS DERIVED ORTHOMETRIC HEIGHTS BY APPLICATION OF NGS "GEOID 12A" MODELED SEPERATIONS TO ELLIPSOID HEIGHTS DETERMINED BY OBSERVATIONS OF THE "LEICA SMARTNET" REAL TIME NETWORK. ALL ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD88

FLOOD ZONE
SITE IS LOCATED IN FLOOD ZONE "D" AS PER F.I.R.M. MAP NO. 06073C2025F
EFFECTIVE DATE 05/16/12.

LEGAL DESCRIPTION
THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:
PARCEL 1:
THAT PORTION OF THE WEST HALF OF THE NORTHWEST QUARTER OF SECTION 29, TOWNSHIP 17 SOUTH, RANGE 5 EAST, SAN BERNARDINO MERIDIAN, IN THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL MAP THEREOF, DESCRIBED AS FOLLOWS:
BEGINNING AT A POINT ON THE WEST LINE OF SAID SECTION 29 DISTANT THEREON SOUTH 0° 03' 25" WEST (RECORD SOUTH 0° 01' 50" EAST), 1560.00 FEET FROM THE INTERSECTION OF SAID WEST LINE WITH THE CENTERLINE OF COUNTY ROAD SURVEY NO. 768, AS SHOWN ON A MAP THEREOF ON FILE IN THE OFFICE OF THE COUNTY ENGINEER OF SAN DIEGO COUNTY, SAID POINT BEING THE SOUTHWEST CORNER OF THAT PARCEL OF LAND DESCRIBED IN A DEED TO KATHLEEN J. SUMRALL, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, SEPTEMBER 16, 2002, AS DOCUMENT NO. 2002-0791357, OF OFFICIAL RECORDS; THENCE NORTH 0° 03' 25" EAST (RECORD NORTH 0° 01' 50" WEST)ALONG SAID WEST LINE 525.12 FEET, MORE OR LESS, TO THE SOUTH CORNER OF THAT PARCEL OF LAND DESCRIBED IN A DEED TO JOHN K. HENDERSON, AND WIFE, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, JUNE 21, 2000, AS DOCUMENT NO. 2000-0326193, OF OFFICIAL RECORDS; THENCE LEAVING SAID WEST LINE NORTH 79° 30' 27" EAST, 220.00 FEET; THENCE NORTH 18° 27' 36" WEST, 130.00 FEET TO THE MOST NORTHERLY CORNER OF THE HEREIN BEFORE MENTIONED SUMRALL LAND; THENCE SOUTH 37° 50' 25" EAST (RECORD SOUTH 37° 55' 40" EAST), 440.00 FEET; THENCE SOUTH 0° 03' 25" WEST (RECORD SOUTH 0° 01' 50" EAST), 350.00 FEET, MORE OR LESS, TO A LINE THAT BEARS SOUTH 89° 30' 25" EAST (RECORD SOUTH 89° 35' 40" EAST) FROM THE POINT OF BEGINNING; THENCE NORTH 89° 30' 25" WEST, 440.00 FEET TO POINT OF BEGINNING.

SAID LEGAL DESCRIPTION IS PURSUANT TO THE CERTIFICATE OF COMPLIANCE RECORDED SEPTEMBER 16, 2004, AS INSTRUMENT NO. 2004-0881599, OF OFFICIAL RECORDS.
PARCEL 2:
AN EASEMENT AND RIGHT OF WAY FOR ROAD AND PUBLIC UTILITIES OVER, UNDER, ALONG AND ACROSS THE WESTERLY 30 FEET OF THAT PORTION OF THE WEST HALF OF THE NORTHWEST QUARTER OF SECTION 29, TOWNSHIP 17 SOUTH, RANGE 5 EAST, SAN BERNARDINO MERIDIAN, IN THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO OFFICIAL PLAT THEREOF DESCRIBED AS FOLLOWS:
BEGINNING AT THE INTERSECTION OF THE WESTERLY LINE OF SAID SECTION 29 WITH THE CENTERLINE OF COUNTY ROAD SURVEY NO. 768, AS SAID ROAD SURVEY IS SHOWN ON MAP THEREOF ON FILE IN THE OFFICE OF THE COUNTY ENGINEER OF SAN DIEGO COUNTY; THENCE SOUTH 0° 01' 50" EAST ALONG SAID WESTERLY LINE 870 FEET; THENCE SOUTH 89° 35' 40" EAST 175 FEET; THENCE NORTH 46° 54' 20" EAST TO SAID CENTERLINE OF COUNTY ROAD SURVEY NO. 768; THENCE NORTHWESTERLY ALONG SAID CENTERLINE TO THE POINT OF BEGINNING.
PARCEL 3:
AN EASEMENT AND RIGHT OF WAY FOR ROAD AND PUBLIC UTILITIES OVER, UNDER, ALONG AND ACROSS THE WESTERLY 30 FEET OF THAT PORTION OF THE WEST HALF OF THE NORTHWEST QUARTER OF SECTION 29, TOWNSHIP 17 SOUTH, RANGE 5 EAST, SAN BERNARDINO BASE AND MERIDIAN, IN THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO OFFICIAL PLAT THEREOF MORE PARTICULARLY DESCRIBED AS FOLLOWS:
BEGINNING AT THE INTERSECTION OF THE WESTERLY LINE OF SAID SECTION 29 WITH THE CENTERLINE OF COUNTY ROAD SURVEY NO. 768 AS SAID ROAD SURVEY IS SHOWN ON THE MAP THEREOF ON FILE IN THE OFFICE OF THE COUNTY ENGINEER OF SAN DIEGO COUNTY; THENCE SOUTHERLY ALONG THE WESTERLY LINE OF SAID SECTION 29 SOUTH 00° 01' 50" EAST 870.00 FEET TO THE TRUE POINT OF BEGINNING; THENCE SOUTHERLY ALONG SAID LINE SOUTH 00° 01' 50" EAST 164.88 FEET; THENCE NORTH 46° 54' 20" EAST 239.52 FEET; THENCE NORTH 89° 35' 40" WEST 175.00 FEET TO THE TRUE POINT OF BEGINNING.

SCHEDULE B (EXCEPTIONS)
SEE LS2



1	08/25/2017	FINAL SURVEY
0	08/18/2017	PRELIMINARY SURVEY
REV	DATE	DESCRIPTION

ISSUED DATE:
AUGUST 25, 2017

ISSUED FOR:
FINAL SURVEY

LICENSURE:

PROJECT INFORMATION:
LAKE MORENA
2290 LAKE MORENA DR.,
CAMPO, CA 91906

DRAWN BY: KI
CHECKED BY: AJK

SHEET TITLE:
TOPOGRAPHIC
SURVEY

SHEET NUMBER:
LS-1

NOTES:

1. THIS IS NOT A BOUNDARY SURVEY. THIS IS A SPECIALIZED TOPOGRAPHIC MAP. THE PROPERTY LINES AND EASEMENTS SHOWN HEREON ARE FROM RECORD INFORMATION AS NOTED HEREON. CELLSIUS ENGINEERING GROUP TRANSLATED THE TOPOGRAPHIC SURVEY TO RECORD INFORMATION USING FOUND MONUMENTS SHOWN HEREON.
2. ANY CHANGES MADE TO THE INFORMATION ON THIS PLAN, WITHOUT THE WRITTEN CONSENT OF CELLSIUS, RELIEVES CELLSIUS' ENGINEERING GROUP OF ANY AND ALL LIABILITY.
3. THESE DRAWINGS & SPECIFICATIONS ARE THE PROPERTY & COPYRIGHT OF CELLSIUS ENGINEERING GROUP & SHALL NOT BE USED ON ANY OTHER WORK EXCEPT BY AGREEMENT WITH THE SURVEYOR. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED & SHALL BE VERIFIED ON THE JOB SITE. ANY DISCREPANCY SHALL BE BROUGHT TO THE NOTICE OF THE SURVEYOR PRIOR TO COMMENCEMENT OF ANY WORK.
4. FIELD SURVEY COMPLETED ON AUGUST 7, 2017.

LEGEND

	CENTER LINE		POWER POLE
	PROPERTY LINE		EXISTING SIGN
	BARB WIRE		GUY WIRE ANCHOR
	METAL FENCE		TREE
	GAS LINE		PINE TREE
	RETAINING WALL		BUSH
	EDGE OF PAVEMENT		PALM TREE
	CHAIN-LINK FENCE		EXISTING CONCRETE
	HT		EXISTING GRASS/TURF
	TC		POLE IN QUESTION
	TW		
	NG		
	FS		
	HH		
	JB		
	RD		
	RG		
	WV		
	TM		
	WM		
	CT		
	VT		
	PB		
	MP		
	BW		
	SS		
	SD		

SCHEDULE B (EXCEPTIONS)

ITEMS 1-3 ARE TAX/LIENS RELATED
ITEM 4 IS RIGHTS RELATED
ITEMS 5,6,11,12 ARE DEEDS RELATED

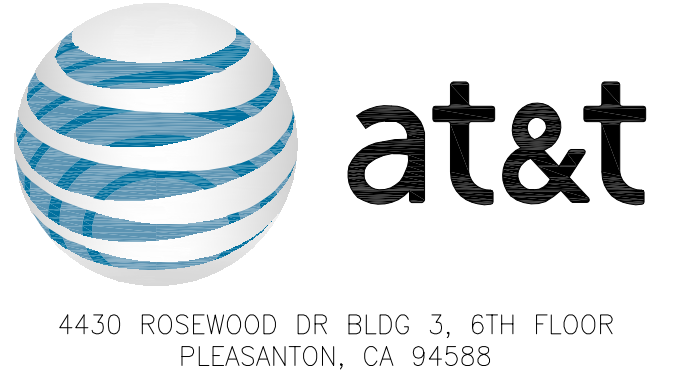
7. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT:
GRANTED TO: PACIFIC TELEPHONE AND TELEGRAPH COMPANY
PURPOSE: PUBLIC UTILITIES
RECORDING DATE: NOVEMBER 19, 1931
RECORDING NO: BOOK 63, PAGE 158, OFFICIAL RECORDS
AFFECTS: SAID LAND MORE PARTICULARLY DESCRIBED THEREIN

THE EXACT LOCATION OF THE EASEMENT IS CANNOT BE DETERMINE.

8. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT:
PURPOSE: ROAD AND PUBLIC UTILITIES
RECORDING DATE: FEBRUARY 23, 1973
RECORDING NO: 73-047525, OFFICIAL RECORDS
AFFECTS: SAID LAND MORE PARTICULARLY DESCRIBED THEREIN

9. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT:
GRANTED TO: SAN DIEGO GAS & ELECTRIC COMPANY
PURPOSE: PUBLIC UTILITIES
RECORDING DATE: NOVEMBER 5, 1980
RECORDING NO: 80-372872, OFFICIAL RECORDS
AFFECTS: SAID LAND MORE PARTICULARLY DESCRIBED THEREIN

10. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT:
GRANTED TO: PACIFIC TELEPHONE AND TELEGRAPH COMPANY
PURPOSE: PUBLIC UTILITIES
RECORDING DATE: JULY 14, 1981
RECORDING NO: 81-220794, OFFICIAL RECORDS
AFFECTS: SAID LAND MORE PARTICULARLY DESCRIBED THEREIN



REV	DATE	DESCRIPTION
1	08/25/2017	FINAL SURVEY
0	08/18/2017	PRELIMINARY SURVEY

ISSUED DATE: AUGUST 25, 2017

ISSUED FOR: FINAL SURVEY

LICENSURE:

PROJECT INFORMATION: LAKE MORENA
2290 LAKE MORENA DR., CAMPO, CA 91906

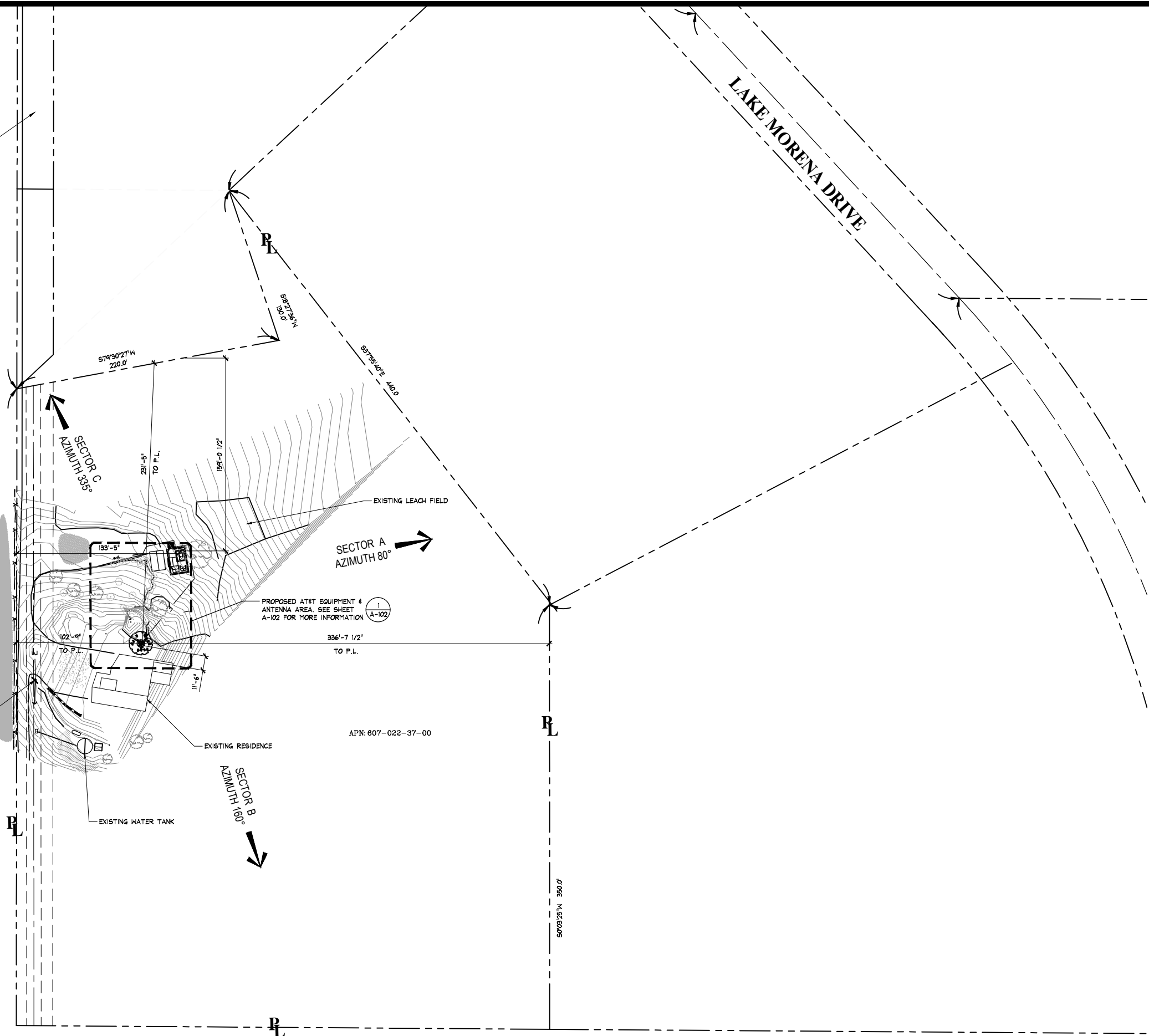
DRAWN BY: KI
CHECKED BY: AJK

SHEET TITLE: TOPOGRAPHIC SURVEY

SHEET NUMBER: LS-2

EXISTING ACCESS DIRT ROAD

LAKE MORENA DRIVE



EXISTING UTILITY POLE W/
TRANSFORMER (P) AT&T
POWER P.O.C.

EXISTING RESIDENCE

EXISTING WATER TANK

APN: 607-022-37-00

NOTE:
CONTRACTOR TO VERY LOCATION OF SEPTIC
AND LEACH LINES. IF ANY CONFLICT WITH
THE LOCATION OF NEW AT&T SITE PLEASE
CONTACT THE ARCHITECT.

THIS IS NOT A SITE SURVEY:
ALL PROPERTY BOUNDARIES, ORIENTATION OF
TRUE NORTH AND STREET HALF-WIDTHS
HAVE BEEN OBTAINED FROM A TAX PARCEL
MAP AND ARE APPROXIMATE.

Underground Service Alert
Call: TOLL FREE
1-800
422-4133
TWO WORKING DAYS BEFORE YOU DIG

NOTIFY DIG-ALERT OR PRIVATE LOCATING
COMPANY PRIOR TO ANY EXCAVATING OR TRENCHING

No.	Revision / Issue	Date
A	75% ZD REVIEW	08-22-17
B	100% ZD REVIEW	09-01-17
C	County Comments	11-09-17
D	County Comments	02-08-18
E	County Comments	04-19-18

MITCHELL J. ARCHITECTURE, INC.
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858.850.3130 (ph) / 858.850.3140 (fax)



LAKE MORENA
CALIFORNIA
2290 LAKE MORENA DRIVE
CAMPO, CA 91906

architecture Mitchell J. architecture



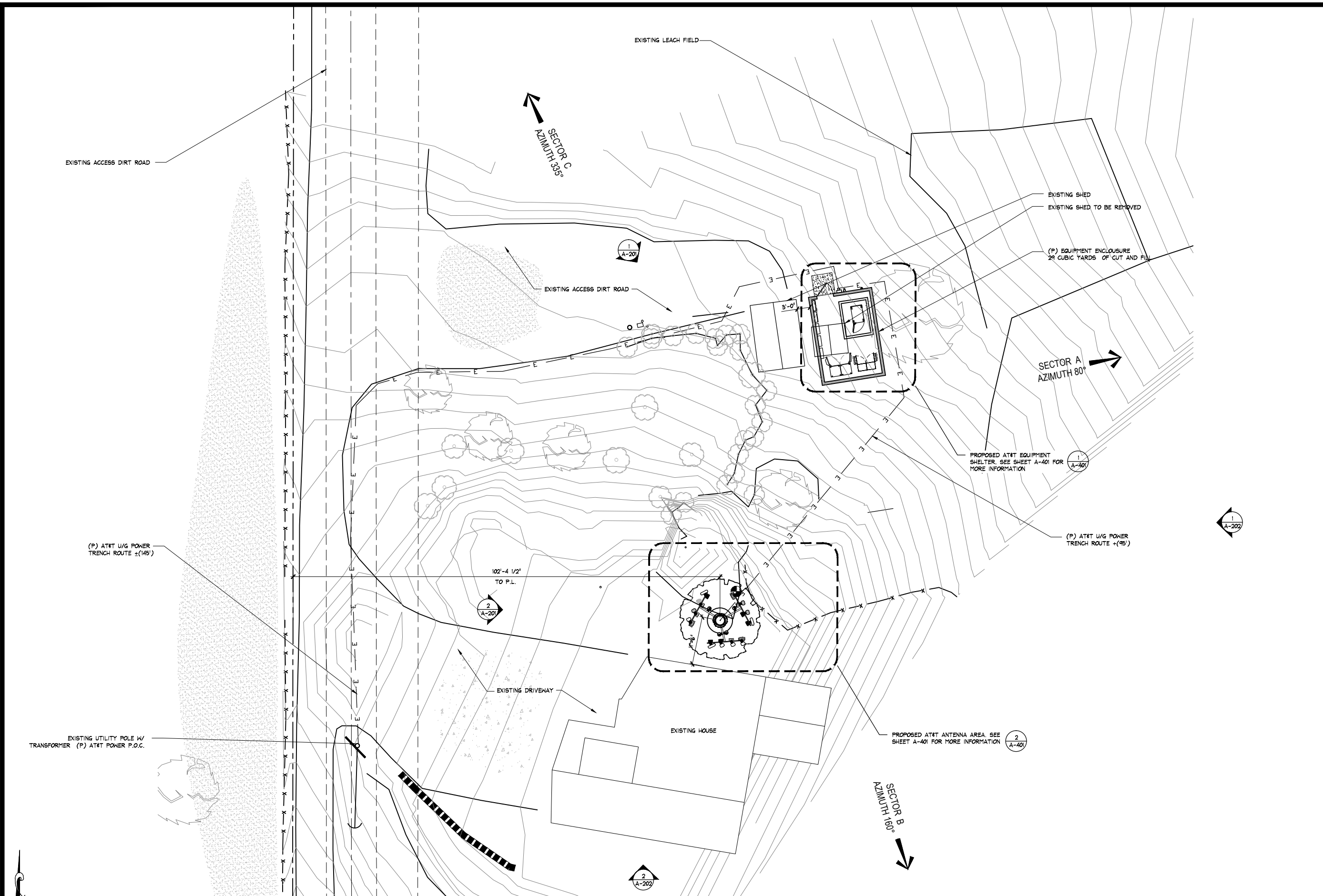
Project	CAL01620
Date	08-22-17
Drawn By	CR
Checked By	AB
Scale	AS SHOWN

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A-101



1 BOUNDARY PLAN
SCALE: 1" = 40'



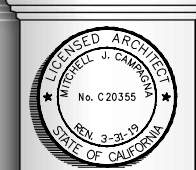
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architect

AT&T

LAKE MORENA
CA 91906
2290 LAKE MORENA DRIVE
CAMPO, CA 91906



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ANTICIPATED POLLUTANTS:

TRASH AND DEBRIS
OIL AND GREASE

BMP LEGEND

MATERIALS & WASTE MANAGEMENT CONTROL BMPs:

- WM-1 MATERIAL DELIVERY & STORAGE
- WM-4 SPILL PREVENTION AND CONTROL
- WM-8 CONCRETE WASTE MANAGEMENT
- WM-5 SOLID WASTE MANAGEMENT
- WM-9 SANITARY WASTE MANAGEMENT
- WM-6 HAZARDOUS WASTE MANAGEMENT

TEMPORARY RUNOFF CONTROL BMPs:

- SC-5 FIBER ROLLS — FR — FR —
- SC-6 / SC-8 GRAVEL OR SAND BAGS ○○○○
- TC-1 STABILIZED CONSTRUCTION ENTRANCE ▨
- SS-7 PHYSICAL STABILIZATION EROSION CONTROL BLANKET
- SS-3,4,7 WILL USE EROSION CONTROL MEASURES FROM ITEM A ON FLAT AREAS ALSO
- SC-7 STREET SWEEPING AND VACUUMING

PERMANENT BMPs:

NONE

POST CONSTRUCTION SITE DESIGN BMPs:

- 4.3.2 CONSERVE NATURAL AREAS, SOILS, AND VEGETATION
- 4.3.3 MINIMIZE IMPERVIOUS AREA
- 4.3.4 MINIMIZE SOIL COMPACTION
- 4.3.7 LANDSCAPING WITH NATIVE OR DROUGHT TOLERANT SPECIES

STORMWATER POLLUTION PREVENTION NOTES

APPROPRIATE EROSION PREVENTION AND SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED AT ALL TIMES.

ALL DISTURBED AREAS SHALL BE PROTECTED FROM STORMWATER RUN-ON AND PREVENT STORMWATER RUN-OFF

THE TOPS OF ALL SLOPES SHALL HAVE A DIKE OR TRENCH TO PREVENT WATER FROM FLOWING OVER THE CRESTS OF SLOPES.

CLEAN GRAVEL ONLY WILL BE USED IN GRAVEL BAGS.

CATCH BASINS, DISTILLING BASINS, GRAVEL BAGS, CHECK DAMS AND STORM DRAINS SYSTEMS SHALL BE INSTALLED TO THE SATISFACTION OF THE CITY. THESE FACILITIES SHALL BE CLEANED AND REPAIRED ON A REGULAR BASIS, AND KEPT FREE OF SOIL ACCUMULATION.

GRAVEL BAG CHECK DAMS SHALL BE PLACED IN UNPAVED AREAS WITH GRADIENTS IN EXCESS OF 2% IN OTHER GRADED OR EXCAVATED AREAS AS REQUIRED BY THE CITY, AND AT OR NEAR EVERY POINT WHERE CONCENTRATED FLOWS LEAVE THE DEVELOPMENT.

GRAVEL BAGS SHALL BE PLACED ON THE UPSTREAM SIDE OF ALL DRAINAGE INLETS TO MINIMIZE SLT BUILDUP IN THE INLETS AND PIPES

THE CONTRACTOR SHALL IMMEDIATELY REPAIR ANY ERODED SLOPES

ROADWAYS AND ENTRANCES TO AND FROM THE SITE SHALL BE SWEEPED ON A REGULAR BASIS TO KEEP THEM FREE OF SOIL ACCUMULATION

CONTRACTOR SHALL HAVE WATER TRUCKS AND EQUIPMENT ON-SITE TO MINIMIZE AIRBORNE DUST CREATED FROM GRADING AND HAULING OPERATIONS OR EXCESSIVE WIND CONDITIONS. WATERING SHALL BE PERFORMED ON A CONTINUOUS BASIS ANY TIME THESE CONDITIONS ARE PRESENT AND AT ALL OTHER TIMES AS DIRECTED BY THE CITY. ADDITIONAL DUST CONTROL MEASURES SHALL BE IMPLEMENTED AS NEEDED

STOCKPILES SHALL BE COVERED AT THE END OF EACH WORKING DAY PRIOR TO PREDICT RAIN EVENTS. ASPHALT SHALL BE STORED ON A LAYER OF PLASTIC SHEETING, OR EQUIVALENT.

ALL PORTABLE TOILETS SHALL HAVE A SECONDARY CONTAINMENT AND NOT BE LOCATED NEAR A STORM DRAIN OR STORMWATER CONVEYANCE SYSTEM (I.E. STREET, GUTTER, SIDEWALK, ETC.)

INACTIVE SLOPES SHALL BE PROTECTED AND STABILIZED WITH 10 CALENDAR DAYS OF LAST BEING WORKED, OR ON THE DIRECTION OF THE CITY. ACTIVE SLOPES SHALL BE STABILIZED DURING RAIN.

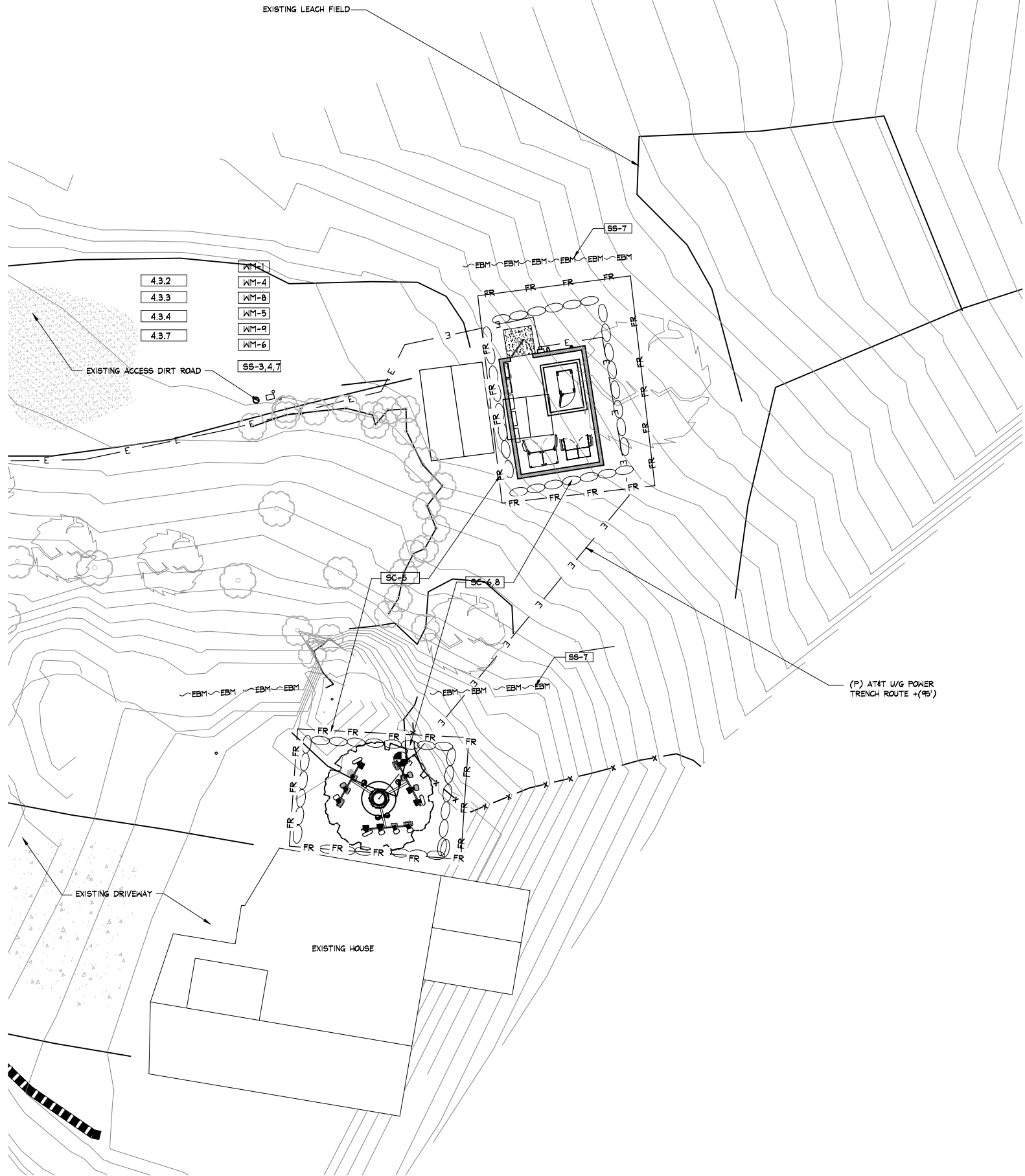
EROSION SHALL BE MITIGATED BY INSTALLING LANDSCAPING AS PER APPROVED LANDSCAPE PLANS AS EARLY AS FEASIBLE, AND AS REQUIRED BY THE DEVELOPMENT REVIEW CONDITIONS. TEMPORARY EROSION CONTROLS SHALL CONFORM TO THE FOLLOWING.

LAND DISTURBANCE AREA

700 SQ. FT.

NOTE:

ALL MAJOR PROPERTY LANDSCAPE DAMAGE BY THIS REMODEL TO BE PLANTED AT ANOTHER LOCATION WITHIN THE PROPERTY. LOCATION TO BE CHOSEN BY PROPERTY OWNER.



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A	75% ZD REVIEW	08-22-17
B	100% ZD REVIEW	09-01-17
C	County Comments	11-09-17
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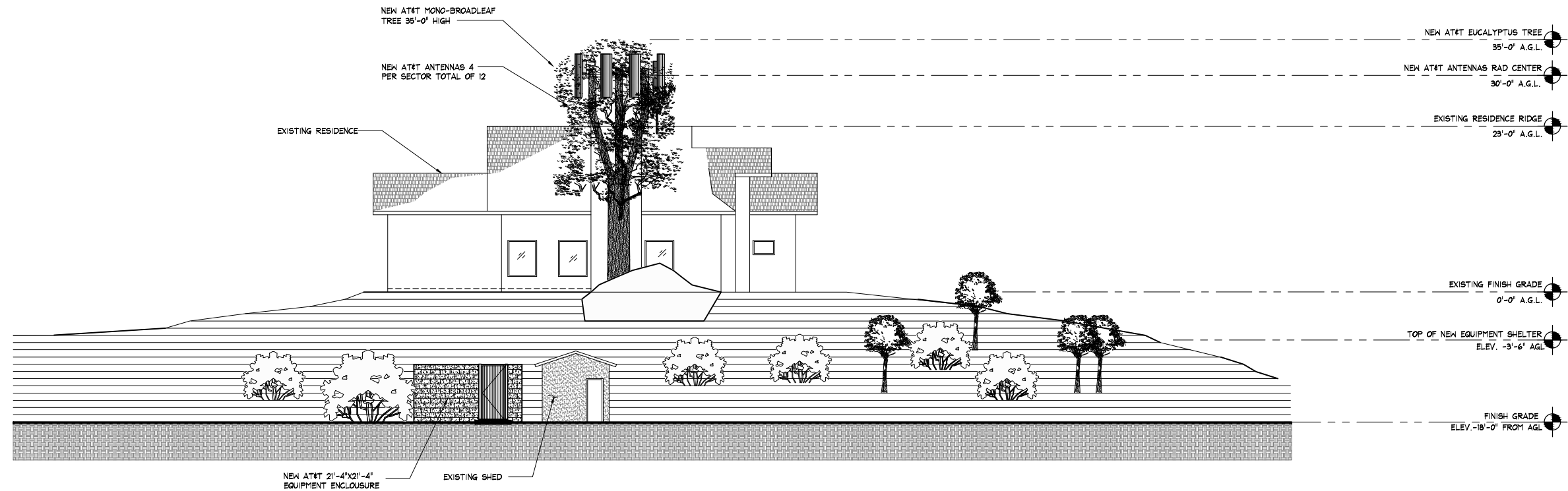
LAKE MORENA
CALIFORNIA
2290 LAKE MORENA DRIVE
CAMPO, CA 91906



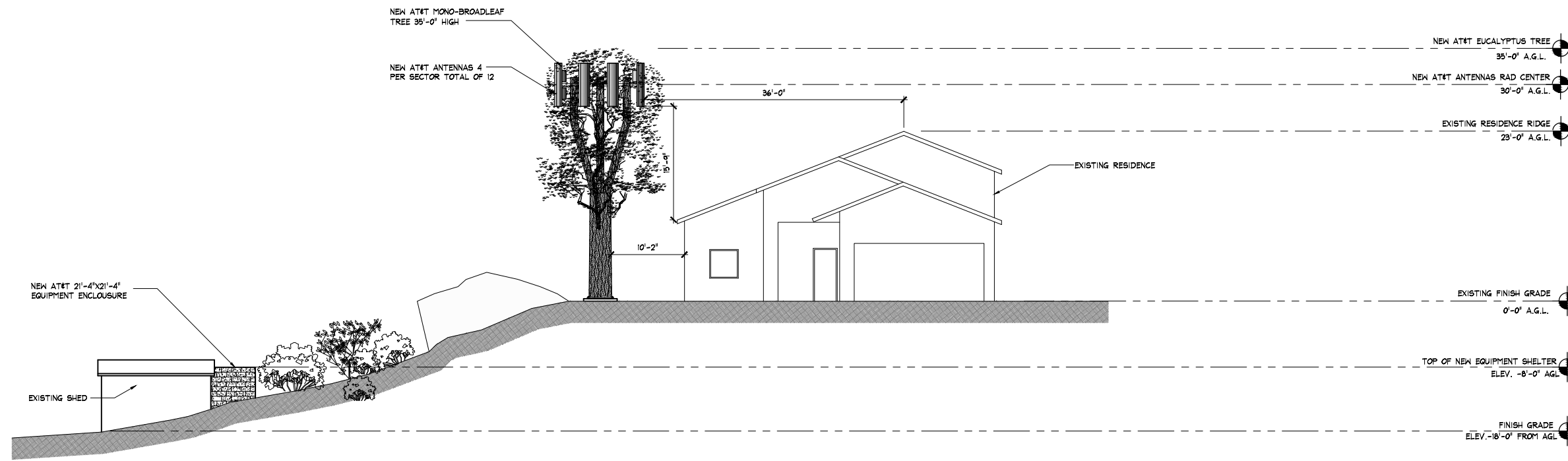
Project	CAL01620
Date	08-22-17
Drawn By	CR
Checked By	AB
Scale	AS SHOWN

Mitchell J. Architecture

A-103



1 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



2 WEST ELEVATION
SCALE: 1/8" = 1'-0"

No.	Revision / Issue	Date
A	75% ZD REVIEW	08-22-17
B	100% ZD REVIEW	09-01-17
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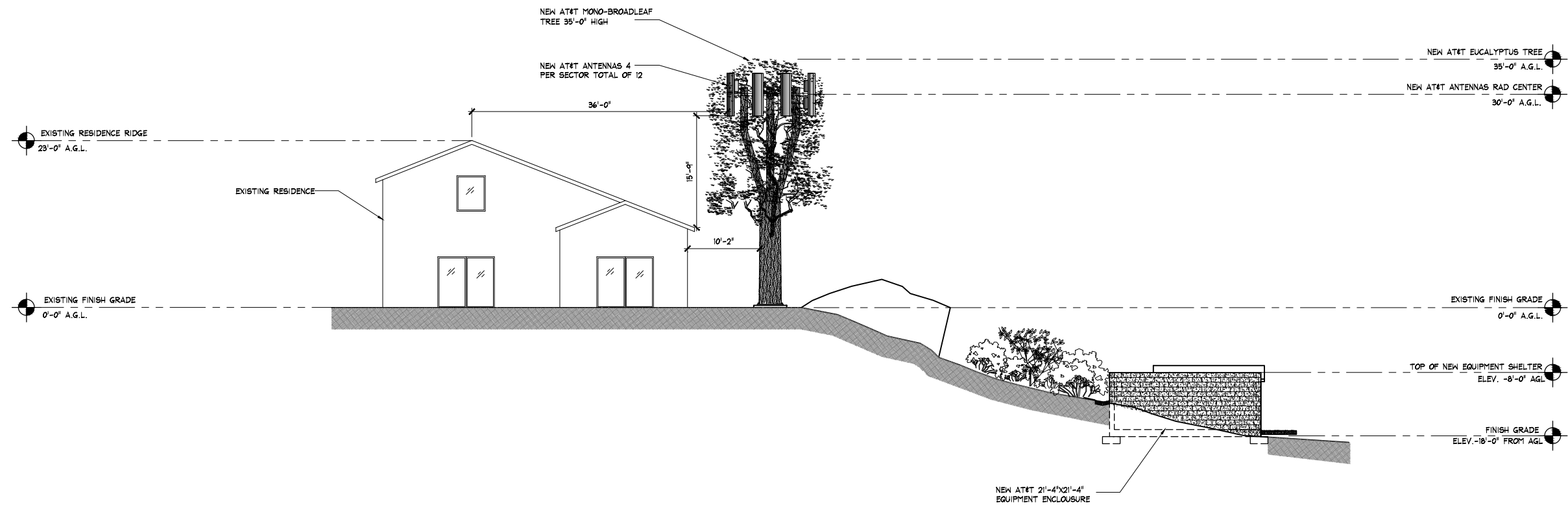


LAKE MORENA
CALIFORNIA
2290 LAKE MORENA DRIVE
CAMPO, CA 91906

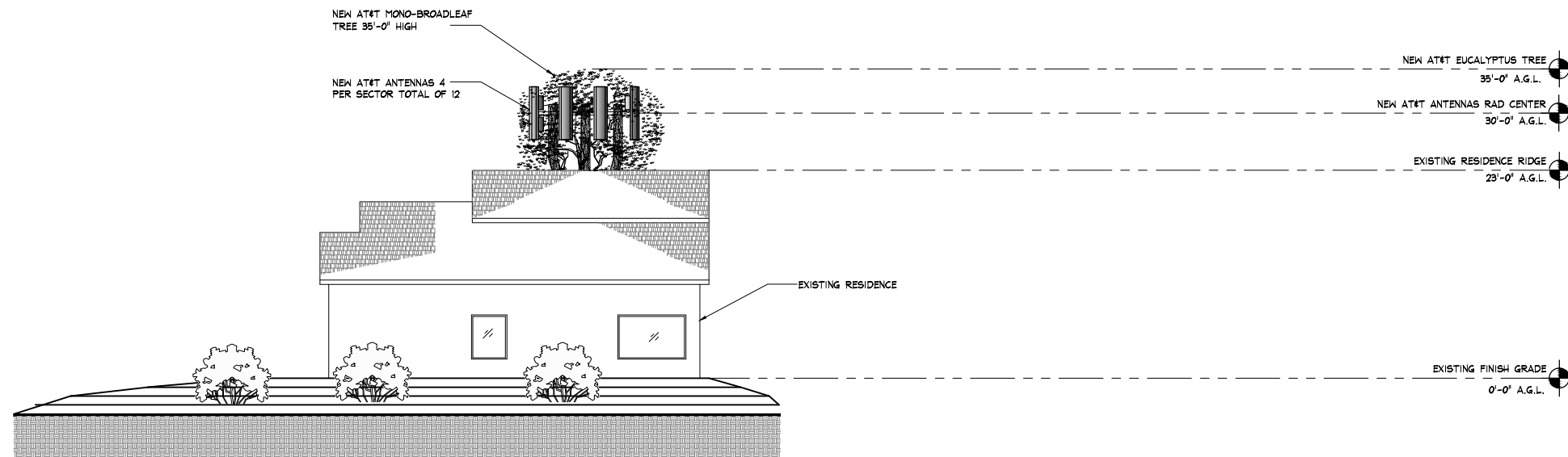


Project	CAL01620
Date	08-22-17
Drawn By	CR
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Scale	AS SHOWN

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1 EAST ELEVATION
SCALE: 1/8" = 1'-0"



2 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

No.	Revision / Issue	Date
A	75% ZD REVIEW	08-22-17
B	100% ZD REVIEW	09-01-17
C	County Comments	11-09-17
D	County Comments	02-08-18
E	County Comments	04-19-18

MITCHELL J. ARCHITECTURE, INC.
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San Jose, CA 95128
858.850.3130 (ph) / 858.850.3140 (fax)



LAKE MORENA
CALIFORNIA
2290 LAKE MORENA DRIVE
CAMPO, CA 91906



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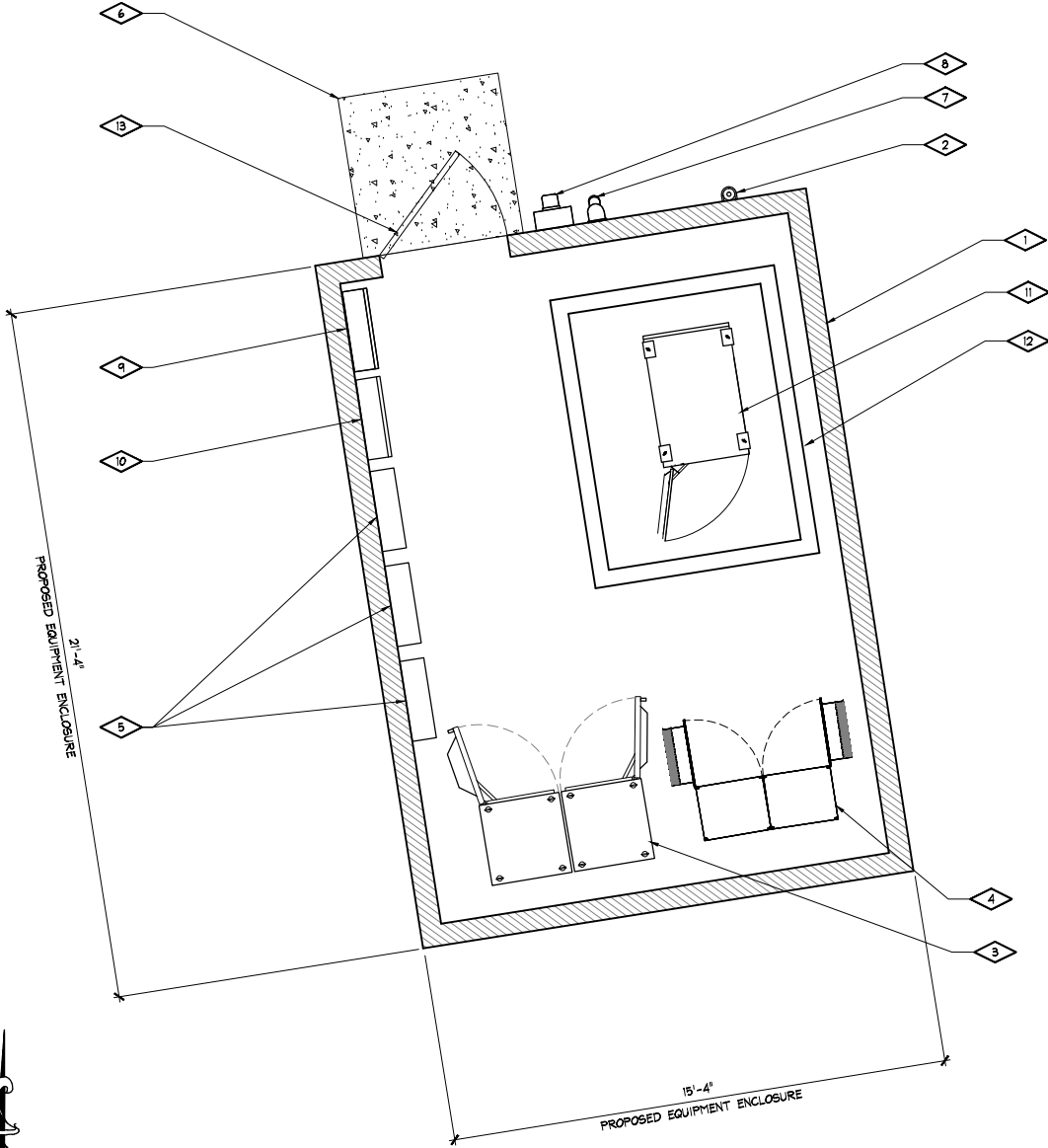
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A-202

EQUIPMENT LAYOUT PLAN KEY NOTES

- 1 NEW 21'-4"x21'-4" EQUIPMENT ENCLOSURE
- 2 NEW GPS ANTENNA (1 TOTAL)
- 3 NEW EMERSON CABINET (2 TOTAL) (7 D-501)
- 4 NEW (2) STACKED PURCELL CABINET (4 TOTAL) (1 D-501)
- 5 NEW DC-12 BOXES (3 TOTAL) (4 D-501)
- 6 NEW CONCRETE STOOP
- 7 NEW INTERSECT PANEL
- 8 NEW METER
- 9 NEW TELCO PANEL
- 10 NEW ELECTRICAL PANEL
- 11 NEW 15KW DIESEL GENERATOR
- 12 GENERATOR CONTAINMENT CURB
- 13 NEW 4'-0"x8'-0" METAL GATE

NOTE:
EQUIPMENT SHELTER IS TO BE CONSTRUCTED
OF NON-COMBUSTIBLE MATERIALS AND THE
DOOR TO BE SOLID METAL.



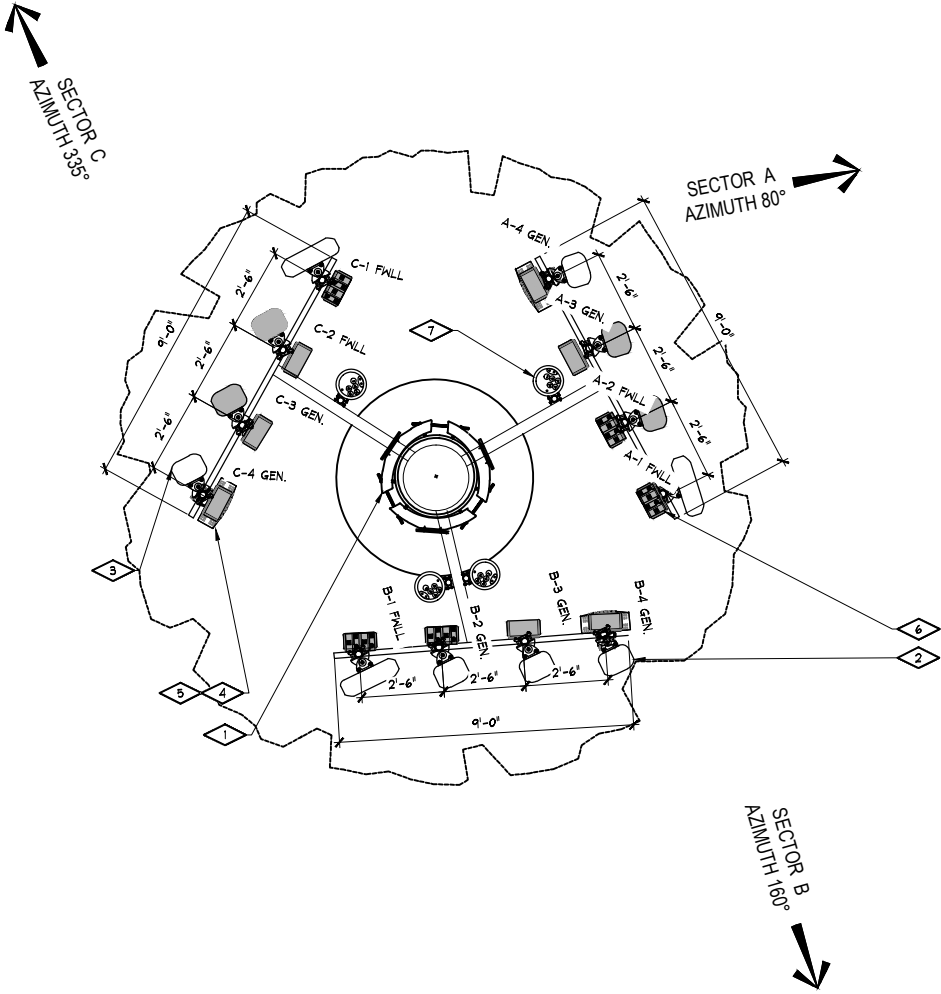
1 NEW EQUIPMENT LAYOUT

SCALE: 3/8" = 1'-0"

EXISTING ANTENNA & COAX SCHEDULE															
SECTOR	ANTENNA						TMA	SURGE SUPPRESSOR	RRU	FILTER	TRANSMISSION LINE				
	POS.	TECH.	STATUS	ANTENNA	AZIMUTH	RAD CENTER					FIBER/POWER	COAX	LENGTH ±		
A	1	FWLL	NEW	HPA-45R-BUU-H6	80°	30'-0"	(3) DC-12 ON EQUIPMENTS ENCLOSURE AND (4) DC-6 INSIDE WATER TOWER	(2) RRUS-32	(1) WCS	(8) DC CABLE (3) FIBER CABLE		-			
	2	FWLL	NEW	QS6658-3E	80°	30'-0"		(2) RRUS-32	(1) WCS						
	3	GENERIC	NEW	QS6658-3E	80°	30'-0"		(2) RRUS-32							
	4	GENERIC	NEW	80010991	80°	30'-0"		(1) RRUS-11/(1)RRUS-32							
B	1	FWLL	NEW	HPA-33R-BUU-H6	160°	30'-0"		(2) RRUS-32	(1) WCS						
	2	GENERIC	NEW	QS6658-3E	160°	30'-0"		(2) RRUS-32							
	3	GENERIC	NEW	QS6658-3E	160°	30'-0"		(2) RRUS-32							
	4	GENERIC	NEW	80010991	160°	30'-0"		(1) RRUS-11/(1)RRUS-32							
C	1	FWLL	NEW	HBSA-1165R-BUU-H6	335°	30'-0"		(2) RRUS-32	(1) WCS						
	2	FWLL	NEW	HBSA-1165R-BUU-H6	335°	30'-0"		(2) RRUS-32	(1) WCS						
	3	GENERIC	NEW	QS6658-3E	335°	30'-0"		(2) RRUS-32							
	4	GENERIC	NEW	80010991K	335°	30'-0"		(1) RRUS-11/(1)RRUS-32							
TOTALS	(12) ANTENNAS						-	(7) DC- SURGE SUPPRESSORS	(24) RRUS	(5) WCS					

NEW ANTENNA LAYOUT PLAN KEY NOTES

- 1 NEW 35' FAUX TREE
- 2 NEW FWLL ANTENNAS (5 TOTAL) (2 D-501) (6 D-501)
- 3 NEW GENERIC ANTENNAS (7 TOTAL)
- 4 NEW RRUS32 MOUNTED BEHIND NEW FWLL ANTENNA (21 TOTAL) (4 D-501)
- 5 NEW WCS FILTERS NEXT TO RRUS32 (5 TOTAL) (8 D-501)
- 6 NEW RRUS-11 MOUNTED BELOW NEW RRUS32 (3 TOTAL) (5 D-501)
- 7 NEW DC-6 SURGE SUPPRESSION UNITS (3 D-501)



2 NEW ANTENNA LAYOUT

SCALE: 3/8" = 1'-0"

EQUIPMENT & ANTENNA LAYOUT PLANS

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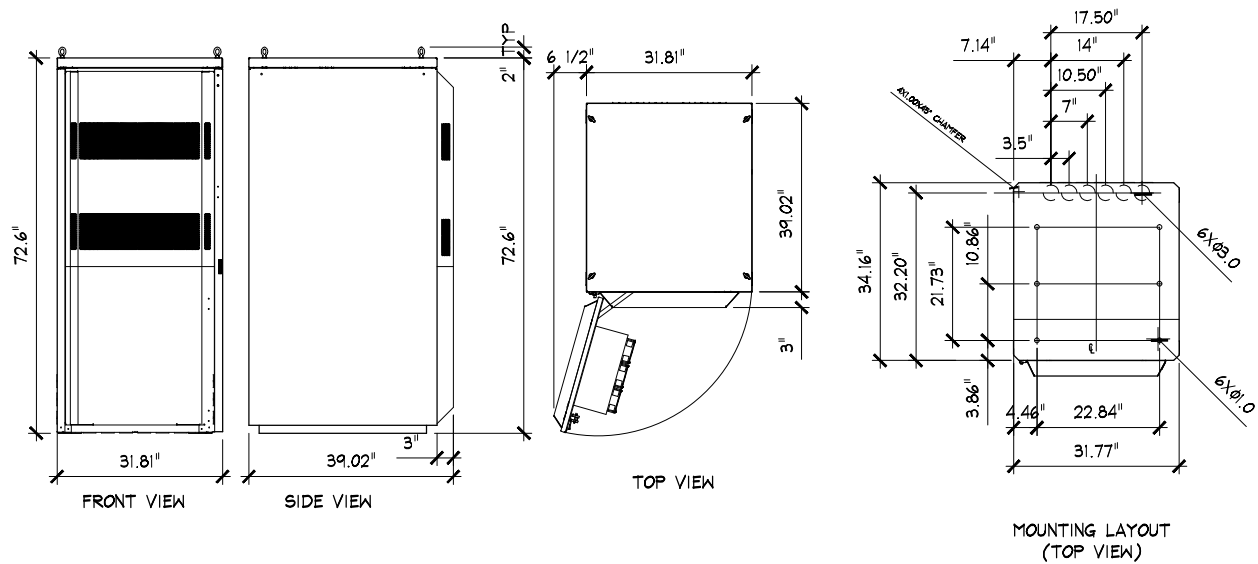
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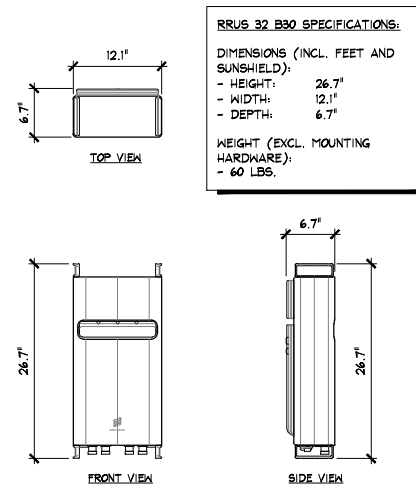
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A-401



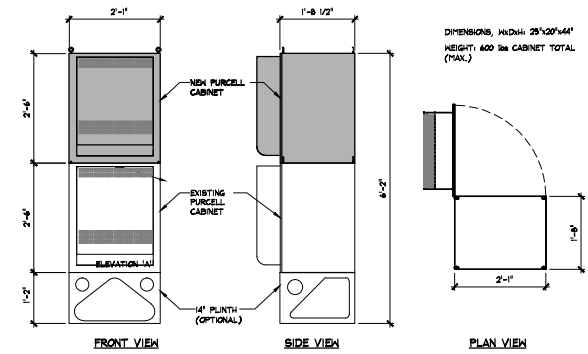
7 (N) POWER CABINET (EMERSON)

SCALE: NTS



4 (N) WCS RRUS (RRUS-32)

SCALE: 3" = 1'-0"

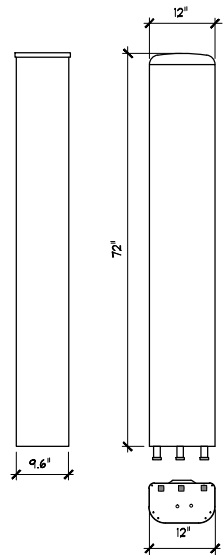


1 (N) PURCELL CABINET

SCALE: 3/4" = 1'-0"

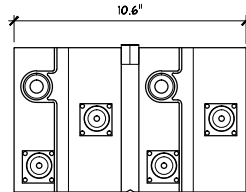
QUINTEL 6658-3E

DIMENSIONS, HxWxD: 72"x12"x9.6"
WIND SPEED, MAX. 150 mph
FRONT WIND LOAD: 285 N
SIDE WIND LOAD: 536 N
PRE-MOUNTED BRACKETS: 78 lbs

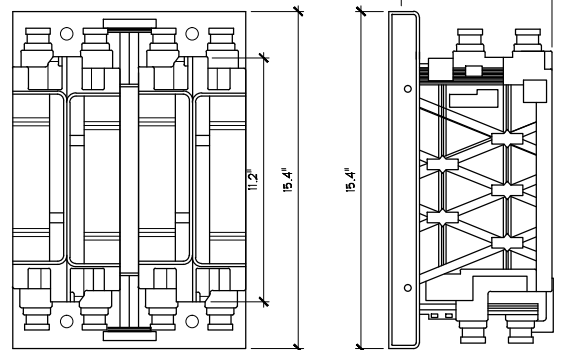


8 (N) QUINTEL 6658-3E

SCALE: 3/4" = 1'-0"



COMMSCOPE #WMS-IMFQ-AMT
QUAD VERSION
PART #E15/B7P71
DIMENSION: 11.2" x 10.6" x 6.9"
HEIGHT (w/ MOUNTING BRACKET): 34.5 LBS
WEIGHT: 29.5 LBS

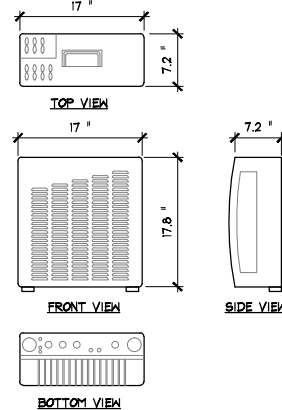
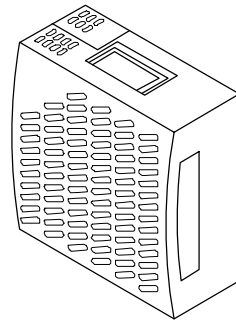


8 (N) WCS FILTER

SCALE: NTS

ERICSSON RRUS-11

DIMENSIONS, WxHxD: 43x184x82mm (17"x7.2"x17.8")
POWER CONSUMPTION: 200 WATTS
TOTAL WEIGHT: 55 lbs
TEMPERATURE: -40° TO 55° C

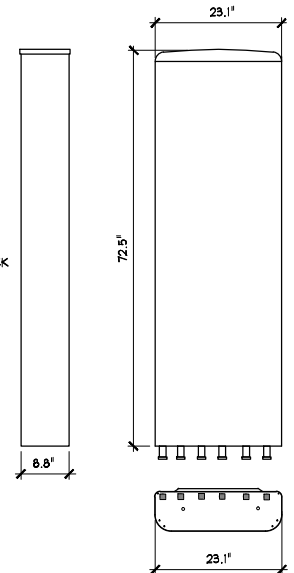


5 (N) RRUS 11

SCALE: 1" = 1'-0"

CCI HPA-33R-BUU-H6

DIMENSIONS, HxWxD: 72.5"x23.1"x8.8"
PRE-MOUNTED BRACKETS: 50 lbs
FRONT WIND LOAD: 1627 N @ 100 m/h
SIDE WIND LOAD: 728 N @ 100 m/h
WIND SPEED, MAX. 201 km/h ? 125 mph
CONNECTOR: 6X7-16 DIN FEMALE LONG NECK

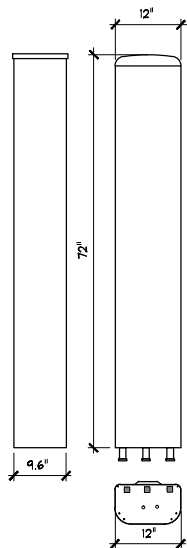


2 (N) CCI HPA-33-BUU-H6

SCALE: 3/4" = 1'-0"

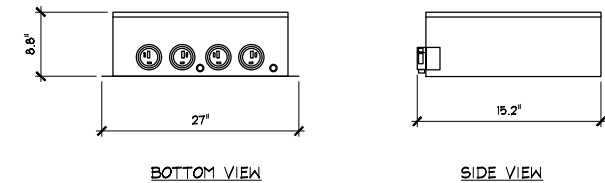
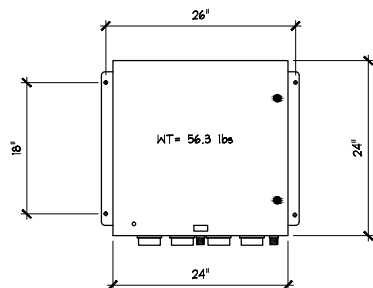
KATHERIN 80010991

DIMENSIONS, HxWxD: 78.7"x20"x6.9"
WIND SPEED, MAX. 150 mph
FRONT WIND LOAD: 1130 N @ 254 m/h
SIDE WIND LOAD: 1140 N @ 256 m/h
PRE-MOUNTED BRACKETS: 100.9 lbs
CONNECTOR: 12X4.3-10 DIN FEMALE LONG NECK



9 (N) KATHERIN 80010991K

SCALE: 3/4" = 1'-0"

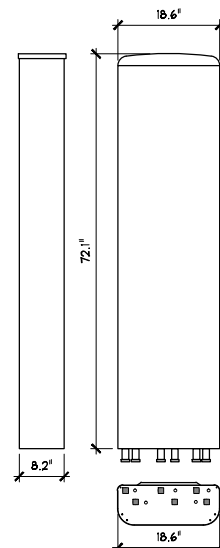


9 (N) DC-12 DETAIL

SCALE: 1" = 1'-0"

CCI HPA-45R-BUU-H6

DIMENSIONS, HxWxD: 72.1"x18.6"x8.2"
PRE-MOUNTED BRACKETS: 49.2 lbs
FRONT WIND LOAD: 301 N @ 100 m/h
SIDE WIND LOAD: 154 N @ 100 m/h
WIND SPEED, MAX. 241 km/h ? 150 mph
CONNECTOR: 6X7-16 DIN FEMALE LONG NECK

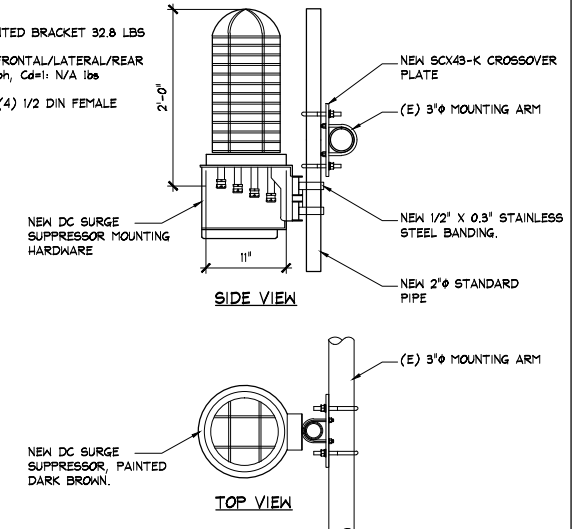


6 (N) CCI HPA-45R-BUU-H6

SCALE: 3/4" = 1'-0"

DIMENSIONS: HxWxD: (10" DIA. X 24")

WEIGHT: w/ PRE-MOUNTED BRACKET 32.8 LBS
WIND LOAD: FRONTAL/LATERAL/REAR
SIDE 149.8 mph, Cd=1: N/A lbs
CONNECTOR: (4) 1/2 DIN FEMALE



3 (N) DC-6 SURGE SUPPRESSOR

SCALE: NTS

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AT&T

LAKE MORENA
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LICENSED ARCHITECT
MITCHELL J. ARCHITECTURE
No. C20355
REV. 3-31-19
STATE OF CALIFORNIA

Project: CAL01620
Date: 08-22-17
Drawn By: CR
Checked By: AB
Scale: AS SHOWN

MITCHELL J. ARCHITECTURE

D-501

8220-603 series
Reliability through Simplicity



8220-603 series
2 of 6

Founded in 1979 Polar Power specialized in solar photovoltaic systems, solar air conditioning and refrigeration. We developed and provided photovoltaic charging controls for telecommunications in the 1980s along with DC generators for the military. In 1994 we were first to provide DC generators with remote control and monitoring to the telecommunications industry.

Polar's success is based on engineering generators to meet the very specific needs of each application. Telecom site optimization is best met with the DC generator technology as the loads and batteries are DC. It makes no sense to install an AC generator and convert the output to DC. The AC generators are designed for a wide range of applications and they are not specifically produced for telecom applications so there are issues with reliability, space, and fuel efficiency. Polar can save you considerable time and cost in permitting, installing, purchasing, and maintaining a backup generator. We reduce CAPEX and OPEX costs while improving backup reliability.

Intertek 4003706
Conforms to UL STD 2200
Certified to CSA STD C22.2 No. 100
Fuel tank is UL 142 Listed
Meets EPA Emission Regulations
CA/MA Emissions Compliant

2 year standard warranty, extended 5-10 year warranty available

Available Models:
• 8220-603-D-10 Diesel 10 kW - 48 VDC
• 8220-603-D-15 Diesel 15 kW - 48 VDC



The concepts and features behind Polar's backup generator for telecommunications include:

SMALL FOOTPRINT. Polar's DC generator is considerably smaller in size than an AC generator. You can now backup sites that could not accommodate an AC generator. Smaller also means less cost for space leasing.

LONG RESERVE. 48 to 72 hour reserve. Polar's DC generator can provide long reserve times because of very low fuel consumption. This generator should be the first choice for sites exposed to natural disasters requiring backup for weeks or months at a time (fuel consumption 1.02 gallon per hour).

LOW ACOUSTIC NOISE. <66 dBA @ 7 meters, and low vibration so as not to disturb the local residents or building landlords. Quieter than other generators with lower noise ratings.

LIGHTWEIGHT. Up to 1/3 the weight of a comparable AC generator. Facilitates roof top installations.

CORROSION RESISTANT. All-aluminum enclosure with stainless hardware for low maintenance, and long service life.

RODENT RESISTANT. Small animals can quickly destroy a generator set by gnawing on wires, fuel lines, radiator hoses, etc. Cooling air inlets and outlets have perforated aluminum screens to keep small rodents and large insects out. Stainless steel wire braid is placed over fuel and radiator lines for increased reliability and safety.

SUPERCAPACITOR STARTER. Failure to start is the number one problem plaguing generator reliability. Polar's unique design has replaced the starting battery with a Super Capacitor. Capacitors are more reliable and last longer than batteries (10-15 year life).

LONG LIFE. Controls and wire harnesses are designed to exceed a 20 year life. Higher grade, longer life electrical wire (UL 3173), weather tight connectors, gold plated connector pins on signal circuits. Controls and wire harness are easily replaceable.

ADVANCED MONITORING. Remote diagnostics, control, and monitoring. Ethernet and RS232 standard, with optional SNMP.

SIMPLICITY. Transfer switch, rectifier, and starting battery are not required.

COMPARING THE COST OF AC vs DC

	AC	DC
Transfer switch required	Yes	No
Permitting costs	\$5	\$
Shipping to site and installation cost	\$5	\$
Site preparation/reinforcing structures	\$55	\$
Ethernet/RS232 remote control and monitoring	Extra	Standard

8220 ALTERNATOR FEATURES

- No mechanical adjustments
- Very lightweight
- High quality electrical output
- Voltage and current regulation
- Up to 94% efficiency
- Class 220° C insulation
- Anodized type III process for aluminum parts
- Nickel plating for steel parts
- Stator is varnished

8220 ALTERNATOR SPECIFICATIONS

Type	Permanent Magnets, NdFeB
Weight (lb/kg)	46.5/21
Regulation Type	Variable engine speed
Stator	3 phase/32 poles
Overcurrent Protection (A)	10 kW - 250 15 kW - 350
Disconnect Means	Pull fuse block, sized for each generator kW
Voltage Range (VDC)	44 to 62
Alternator Exhaust Flow (cfm/cmm)	130 to 180 / 3.68 to 5.1
MTBF (hr)	100,000+

ENCLOSURE

Model	88-25-0603
Type	Weather Protective
Materials	Marine Grade Aluminum
Door Hardware	Three Point with Padlock Hasp, and Removable Side Panels
Mounting	Secure Mounting Tabs

WEIGHTS AND DIMENSIONS

	10 kW	15 kW
Dry Weight (lb/kg)	1106/502	1248/566
Dimensions (LxWxH) (in/cm)	32 x 50 x 72 / 81.3 x 127 x 183	

PERMITTING IS FACILITATED

- Small engine horsepower
- Small 54 gallon diesel fuel tank meets UL 142
- DC generator is fully isolated from the utility grid
- No transfer switch
- Low acoustic noise
- Incorporates all requirements made by local Fire Marshals

STARTER SUPERCAPACITOR SPECIFICATIONS

Model	20-16-0001
Storage Rating (Farads)	500
Voltage (VDC)	13-14.4
Weight (lb/kg)	12.1/5.5
Operating Temperature (°C/°F)	-40 to 65 / -40 to 149
Service Life (year)	10 to 15

CHARGER SPECIFICATIONS

Model	00-10-0015
Input Voltage (VDC)	28.8 to 60
Output Voltage (VDC)	14 to 14.4
Recharge time from 0 VDC (min)	10
Recharge time from 8 VDC (min)	2
Weight (lb/kg)	2.2/1

SOUND EMISSIONS

Contact us for current sound data.



ENGINE SPECIFICATIONS: 10 KW DIESEL

Engine Model	Isuzu 3CA1 or Yanmar 3TNV74
Cylinders	3 In-line
Displacement (L)	0.993
Bore (in./mm)	2.91/74
Stroke (in./mm)	3.03/77
Intake Air System	Naturally Aspirated
Engine HP	18
Emissions Compliance	EPA and CARB Certified
Variable RPM	2300 to 2600

ENGINE SPECIFICATIONS: 15 KW DIESEL

Engine Model	Yanmar 3TNV88
Cylinders	3 In-line
Displacement (L)	1.642
Bore (in./mm)	3.4/88
Stroke (in./mm)	3.5/90
Intake Air System	Naturally Aspirated
Engine HP	24
Emissions Compliance	EPA and CARB Certified
Variable RPM	1500 to 1850

ENVIRONMENTAL

Operating Temperature (°C/°F)	-40 to 72 / -40 to 162
Operating Humidity %	100
Cold Start Aids	Glow Plugs

ENGINE FUEL CONSUMPTION

	Output (kW)	gal/hr	L/hr
3CA1/3TNV74	4	0.35	1.32
	5	0.44	1.66
	6	0.53	2
	7	0.615	2.33
	8	0.7	2.65
	9	0.79	2.99
3TNV88	10	0.88	3.33
	15	1.02	3.86

POWER ADJUSTMENT FOR AMBIENT CONDITIONS

Temperature Deration	1% derate for every 5.6 °C (10 °F) above 25 °C (77 °F)
Altitude Deration	3% derate for every 300 m (1000 ft) above 91 m (300 ft)

ENGINE LUBRICATION SYSTEM

Oil Filter Type	Full flow spin-on canister
Oil Capacity	2.8 L - 3CA1/3TNV74 6.7 L - 3TNV88
Oil Pressure Switch	Yes
Oil Pressure Transducer	Optional

ENGINE COOLING SYSTEM

Type	Pressurized Aluminum Radiator
Water Pump	Belt-driven, Pre-lubed, self-sealing
Fan Type	Electric Fans
Airflow CFM or M³/hr	1300 or 2200
Fan Mode	Pusher
Temperature Switch	Yes

DIESEL FUEL SYSTEM

Type	Diesel
Fuel Pump Type	Electrical
Injector Type	Mechanical
Fuel Filtering	Paper element

FUEL TANK SPECIFICATIONS

UL Rated Capacity (gal/L)	54/204
Run Time	see table below
Tank Alarms	Yes
Visual Gages	Yes
Catch Basin (gal/L)	5/19
Listings	UL 142 (double wall)



8220-603 series
4 of 6



ENGINE COOLING

	10 kW	15 kW
System coolant capacity (gal/L)	2.2/8.3	
Maximum operation air temperature on radiator (°C/°F)	50/122	57/135
Maximum ambient temperature (°C/°F)	60/140	60/140

COMBUSTION REQUIREMENTS

	10 kW	15 kW
Flow at rated power (cfm/cmm)	47/1.34	68/1.92

EXHAUST

	10 kW	15 kW
Exhaust flow at rated output (cfm/cmm)	90/2.55	135/3.82
Exhaust temperature at rated output (°C/°F)		480/900

CONTROLLER FEATURES

Controller Type.....	Supra Model 250
4-Line Plain Text LCD Display.....	Simple user interface for ease of operation
Engine Run Hours Indication.....	Standard
Programmable Start Delay.....	Standard
Run/Alarm/Maintenance Logs.....	Standard
Engine Start Sequence.....	Cyclic cranking: 5 sec on, 45 sec rest (3 attempts maximum)
Starter Supercapacitor Charger.....	Standard
Automatic Voltage Regulation with Over and Under Voltage Protection.....	Standard
Automatic Low Oil Pressure/High Oil Temperature Shutdown.....	Standard
Overcrank/Over-speed.....	Standard
Automatic High Engine Temperature Shutdown.....	Standard
Field Upgradeable Firmware.....	Standard
Glow Plug Delay.....	Automatic With Temperature
Engine Start Delay.....	Adjustable, Set at 60 sec
Return to Utility Delay.....	Adjustable, Set at 60 sec
Engine Cool-down.....	Adjustable, Set at 60 sec
Exerciser.....	Programmable, weekly/bi-weekly

WARNING ALARMS

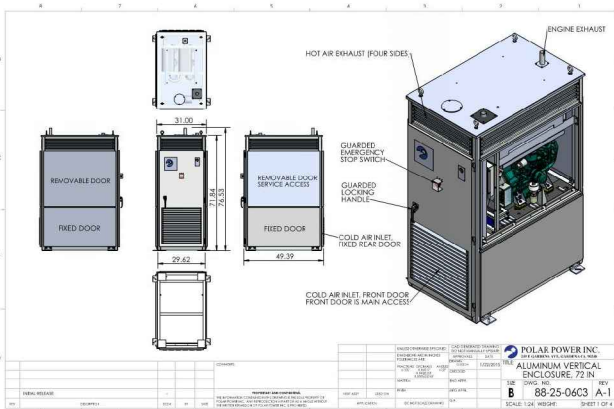
Low Diesel Fuel Level.....	Standard
Diesel Fuel Tank Rupture Basin.....	Standard
Low/High Supercapacitor Voltage.....	Standard
High Water Temperature.....	Standard
Low Oil Pressure.....	Standard

CONTACT CLOSURE FOR REMOTE INDICATION (PN 84-12-0640)

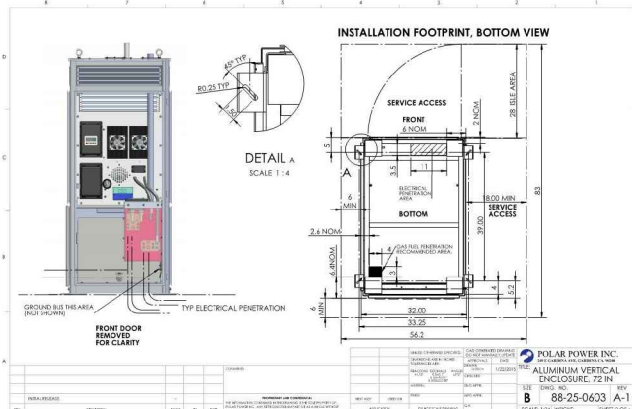
Shutdown Alarm.....	Optional
Warning Alarm.....	Optional
Engine Run.....	Optional
Low Diesel Fuel Level.....	Optional
Diesel Fuel Leak.....	Optional
E-Stop Depressed.....	Optional
Fuel Level Over 90%.....	Optional

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D-502